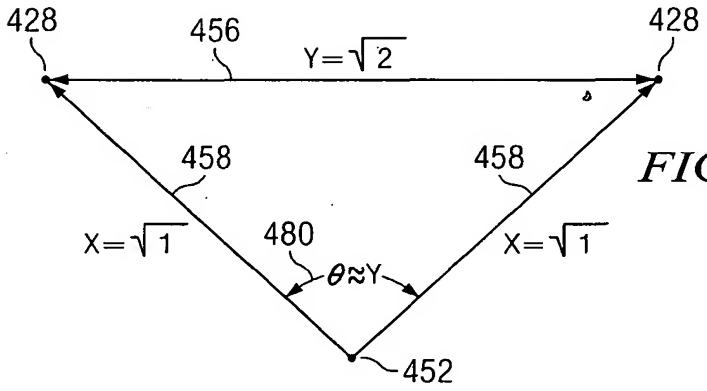

428
456
Y=√2
428
458
458
X=√1
480
θ≈Y
X=√1
452

FIG. 1

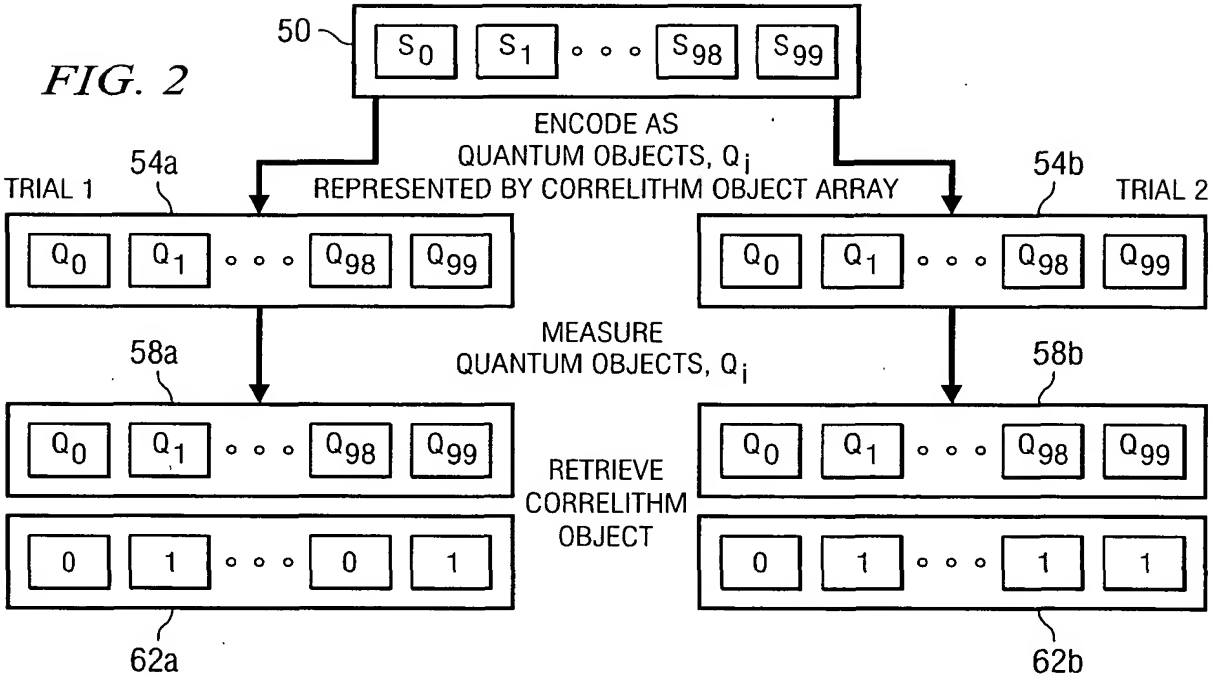
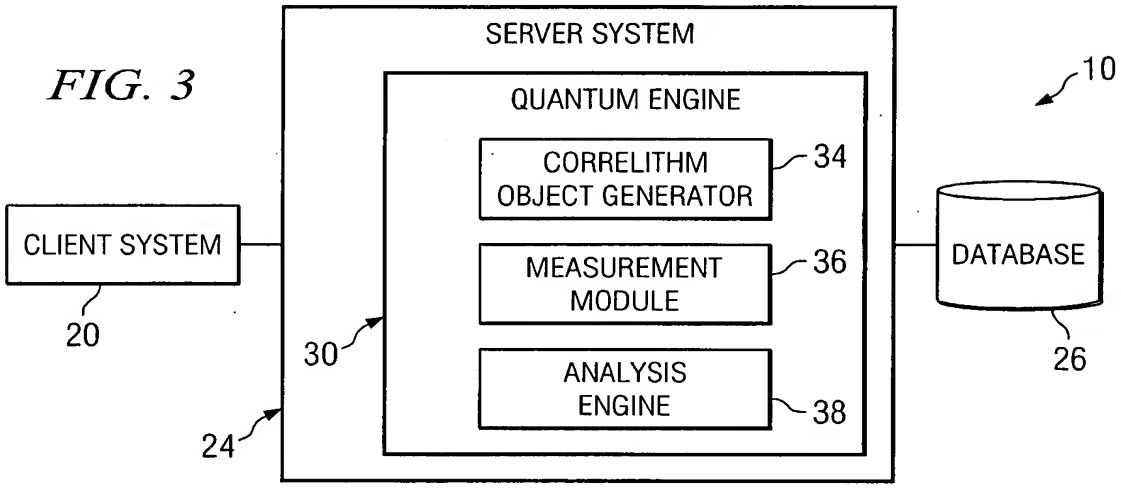

50
S0 S1 ∘ ∘ ∘ S98 S99
ENCODE AS
QUANTUM OBJECTS, Qi
REPRESENTED BY CORRELITHM OBJECT ARRAY
TRIAL 1
54a
54b
TRIAL 2
Q0 Q1 ∘ ∘ ∘ Q98 Q99
MEASURE
QUANTUM OBJECTS, Qi
58a
58b
Q0 Q1 ∘ ∘ ∘ Q98 Q99
RETRIEVE
CORRELITHM
OBJECT
0 1 ∘ ∘ ∘ 0 1
0 1 ∘ ∘ ∘ 1 1
62a
62b

FIG. 2

FIG. 3


SERVER SYSTEM
QUANTUM ENGINE
CORRELITHM OBJECT GENERATOR
34
MEASUREMENT MODULE
36
ANALYSIS ENGINE
38
10
CLIENT SYSTEM
20
30
24
DATABASE
26

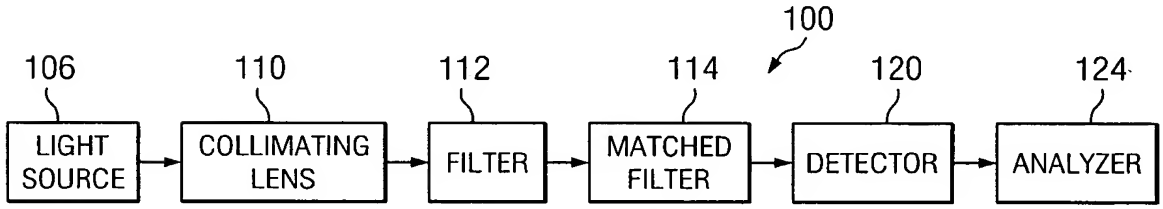
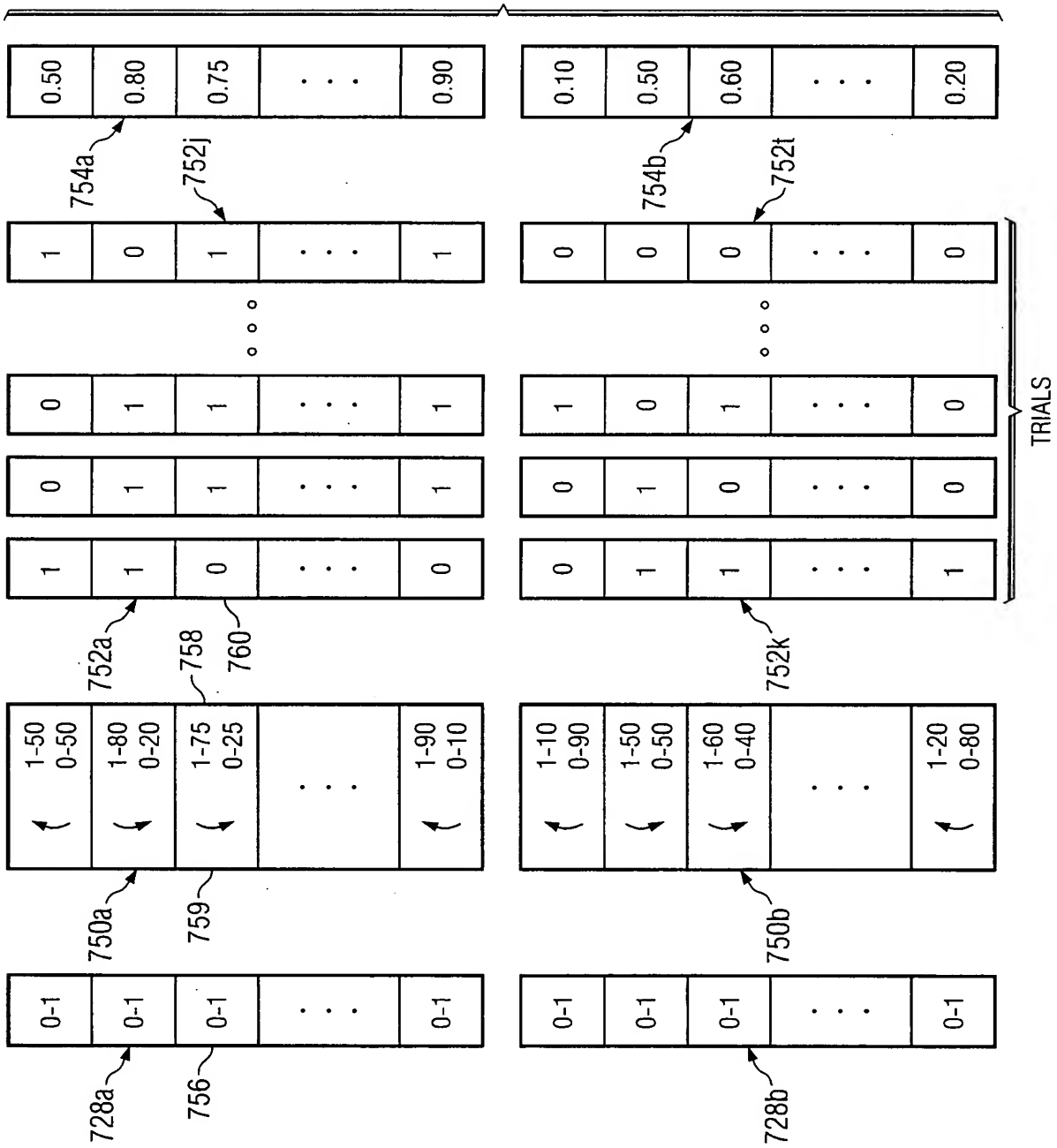

100
106
LIGHT SOURCE
110
COLLIMATING LENS
112
FILTER
114
MATCHED FILTER
120
DETECTOR
124
ANALYZER

FIG. 4

FIG. 5A


0.50
0.80
0.75
0.90
0.10
0.50
0.60
0.20
754a
752j
754b
752t
1
0
1
1
0
0
0
0
0
1
1
1
1
0
1
0
0
1
1
1
0
1
1
0
0
1
0
0
0
1
1
0
TRIALS
752a
758
760
752k
1-50
0-50
1-80
0-20
1-75
0-25
1-90
0-10
1-10
0-90
1-50
0-50
1-60
0-40
1-20
0-80
750a
759
750b
0-1
728a
756
728b

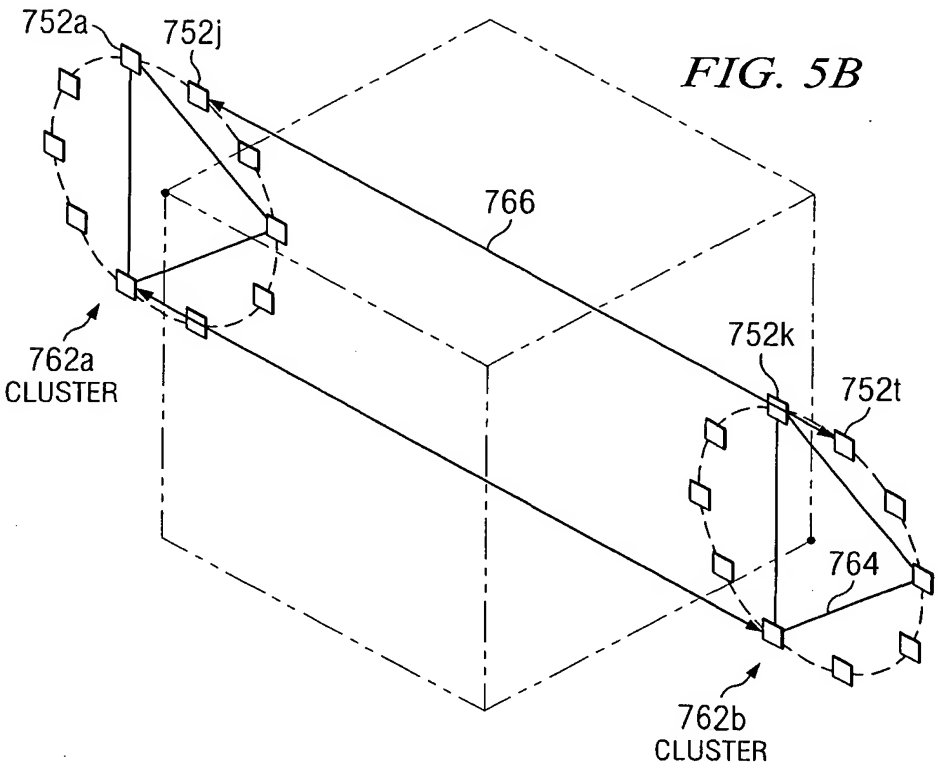

752a
752j
766
762a
CLUSTER
752k
752t
764
762b
CLUSTER

FIG. 5B

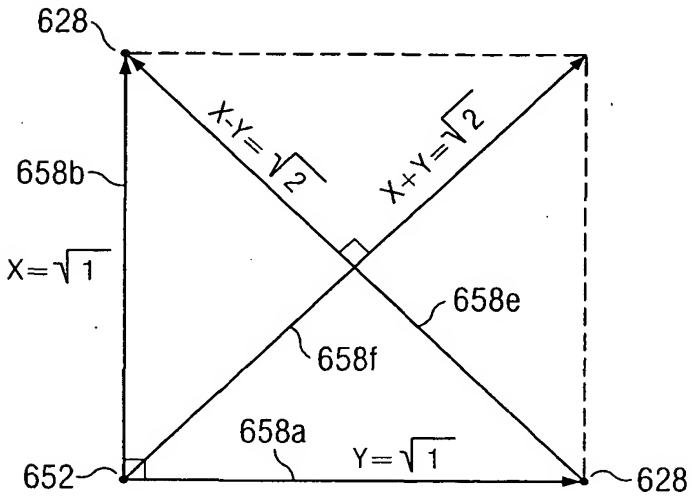

628
658b
X=√1
X-Y=√2
X+Y=√2
658e
658f
658a
Y=√1
652
628

FIG. 6A

FIG. 6B

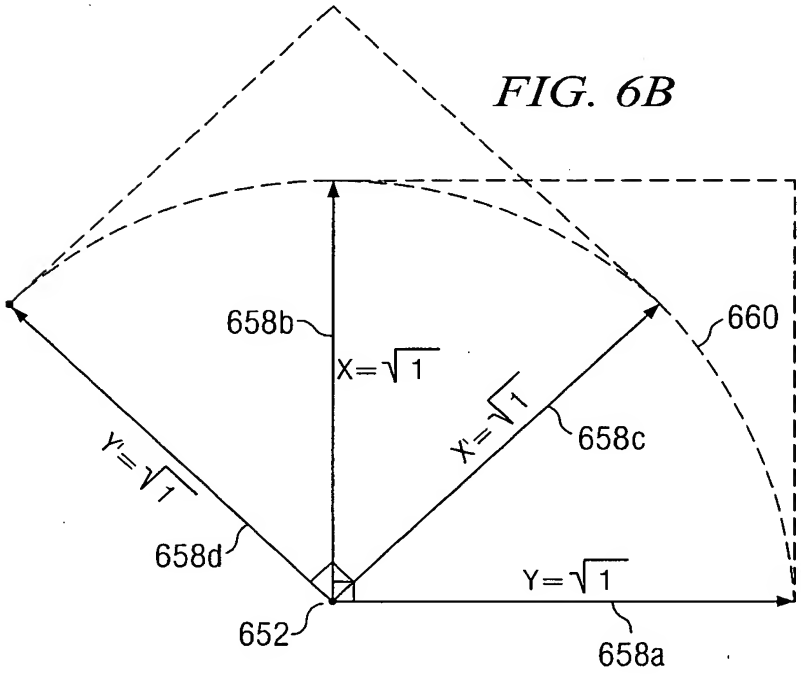
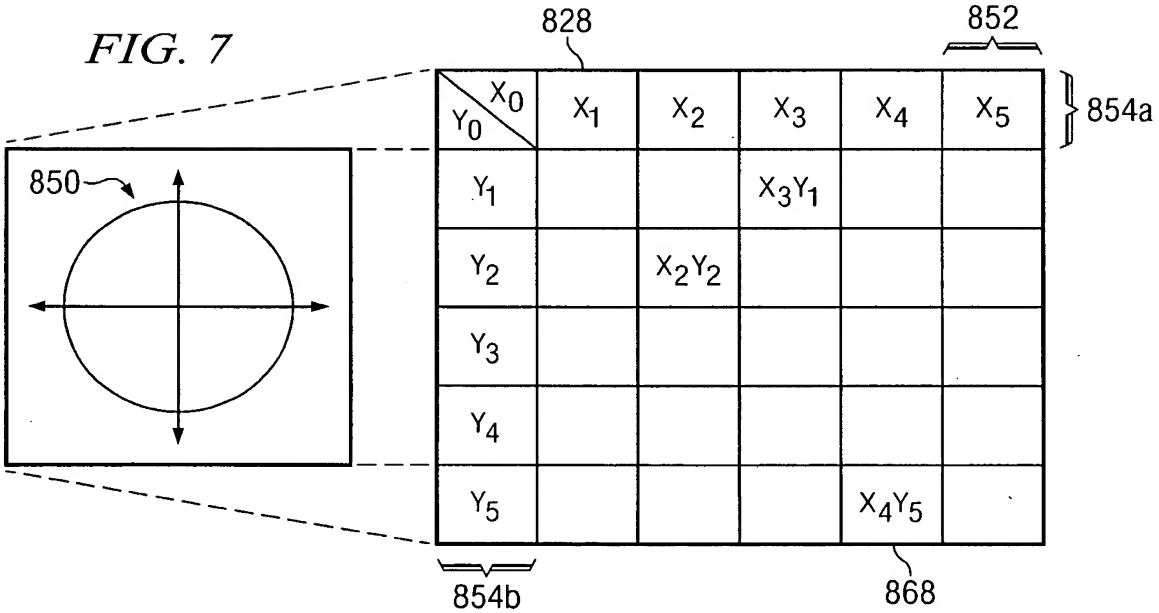

658b
660
X=√1
Y=√1
658c
Y=√1
658d
652
Y=√1
658a

FIG. 7


828
852
X0
Y0
X1
X2
X3
X4
X5
854a
850
Y1
X3Y1
Y2
X2Y2
Y3
Y4
Y5
X4Y5
854b
868